

CCTV IP / Professional IP cameras

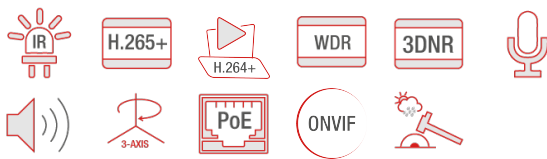
# SF-IPD050A-6I1

## SF-IPD040A-8I1

### I1 Range: Advanced Artificial Intelligence and video metadata

The I1 series is the highest performing IP camera range in the Safire Smart ecosystem. This series integrates advanced and comprehensive artificial intelligence that achieves an accuracy rate of 99%, one of the highest in the industry. In addition, it includes functionalities such as facial capture or video metadata analysis for feature extraction (up to 13 human, 5 vehicle and 2 two-wheeled vehicle features). In this series, cameras with different resolutions (4MP and 8MP) are available with different features to adjust with the best functionalities to the needs and characteristics of each installation.

- IP Dome Camera range I1 Advanced AI
- Resolution 8 Megapixel (3840x2160)
- Lens 2.8 mm | Microphone | IR 30m
- Advanced AI: Human, vehicle and vehicle 2 wheels
- Waterproofing IP67 & IK10 | PoE (IEEE802.3af)



## Technical Specification

| Camera                     |                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor               | 1 / 2.8 "CMOS                                                                                                                                                                     |
| Image Size                 | 3840×2160                                                                                                                                                                         |
| Electronic Shutter         | 1 / 2 s ~ 1 / 100000 s                                                                                                                                                            |
| Iris Type                  | Fixed Iris                                                                                                                                                                        |
| Min. Illumination          | 0.02 lux @ F1.6, AGC ON; 0 lux with IR                                                                                                                                            |
| Lens                       | 2.8 mm @F1.6, Horizontal FoV:101°; Vertical FoV:53°; Diagonal FoV:120°                                                                                                            |
| Focus                      | Fixed                                                                                                                                                                             |
| Lens Mount                 | M12                                                                                                                                                                               |
| Day&Night                  | ICR                                                                                                                                                                               |
| Wide Dynamic Range         | 120dB                                                                                                                                                                             |
| BLC                        | Yes                                                                                                                                                                               |
| HLC                        | Yes                                                                                                                                                                               |
| Defog                      | Yes                                                                                                                                                                               |
| Digital NR                 | 3D DNR                                                                                                                                                                            |
| S/N Ratio                  | ≥50dB                                                                                                                                                                             |
| Angle Adjustment           | Pan: 0°~355°; Tilt:0°~67°; Rotation: 0°~355°                                                                                                                                      |
| Image                      |                                                                                                                                                                                   |
| Video Compression          | Main stream: H.265+ / H.265 / H.264+ / H.264 Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG<br>Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG                         |
| H.264 Compression Standard | Baseline Profile/Main Profile/High Profile                                                                                                                                        |
| Resolution                 | 8MP ( 3840 × 2160 ), 6MP( 3072 × 2048 ),5MP( 2592 × 1944), 4MP ( 2592 × 1520), 2K(2560 × 1440 ), 3MP(2304 × 1296), 1080P ( 1920 × 1080 ), 720P ( 1280 × 720 ), D1, CIF, 480 × 240 |
| Main Stream                | 60Hz : 8MP(1~20fps)/6MP/5MP/4MP/2K/3MP/1080P/720P(1~30fps) 50Hz :<br>8MP(1~20fps)/6MP/5MP/4MP/2K/3MP/1080P/720P(1~25fps)                                                          |
| Sub Stream                 | 60Hz: 720P(1~12fps)/D1/480 × 240(1~30fps) 50Hz: 720P/D1/480 × 240(1~25fps)                                                                                                        |
| Third Stream               | 60Hz: 720P/D1/CIF/480 × 240 (1~30fps) 50Hz: 720P/D1/CIF/480 × 240 (1~25fps)                                                                                                       |
| Bit Rate                   | 64 Kbps ~ 12 Mbps                                                                                                                                                                 |
| Bit Rate Type              | VBR / CBR                                                                                                                                                                         |
| Audio Compression          | G711A / U                                                                                                                                                                         |
| Image Settings             | ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, image mirror, image flip, Sharpness, NR, etc. adjustable through client software or web browser                         |

|                              |                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ROI</b>                   | Each ROI to be configured separately                                                                                                                                                               |
| <b>Interfaces</b>            |                                                                                                                                                                                                    |
| <b>Network</b>               | RJ 45 10M/100M self-adaptive Ethernet port                                                                                                                                                         |
| <b>Video Output</b>          | No                                                                                                                                                                                                 |
| <b>Audio</b>                 | 1CH built-in MIC; 1CH audio input                                                                                                                                                                  |
| <b>Storage</b>               | Built-in micro SD card slot; up to 256GB                                                                                                                                                           |
| <b>Reset</b>                 | Yes                                                                                                                                                                                                |
| <b>Functions</b>             |                                                                                                                                                                                                    |
| <b>Remote Monitoring</b>     | IE browser/ TVT NVR / NVMS / mobile APP                                                                                                                                                            |
| <b>Web Browser</b>           | IE11(plugin required)/Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+                                                                                                                           |
| <b>Online Connection</b>     | Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission                                                                                                    |
| <b>Network Protocol</b>      | UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPs, QoS                                                                         |
| <b>Interface Protocol</b>    | ONVIF                                                                                                                                                                                              |
| <b>Storage</b>               | Network remote storage; micro SD card storage                                                                                                                                                      |
| <b>Smart Alarm</b>           | Motion detection; SD card error; SD card full                                                                                                                                                      |
| <b>Intelligent Analytics</b> | Scene change, video blur detection, abnormal color detection , line crossing detection, intrusion detection                                                                                        |
| <b>General Function</b>      | Watermark, video mask, heartbeat,corridor pattern                                                                                                                                                  |
| <b>IR Distance</b>           | 20~30m                                                                                                                                                                                             |
| <b>Protection Grade</b>      | IP 67 & IK10                                                                                                                                                                                       |
| <b>PoE</b>                   | Yes (IEEE802.3af)                                                                                                                                                                                  |
| <b>Security</b>              | Video encryption, firmware encryption, HTTPs encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/HTTPs |
| <b>DORI Distance</b>         |                                                                                                                                                                                                    |
| <b>Lens</b>                  | 2.8mm                                                                                                                                                                                              |
| <b>Detect</b>                | 86.65m(284.28ft)                                                                                                                                                                                   |
| <b>Observe</b>               | 34.66m(113.71ft)                                                                                                                                                                                   |
| <b>Recognize</b>             | 17.33m(56.85ft)                                                                                                                                                                                    |
| <b>Identify</b>              | 8.66m(28.41ft)                                                                                                                                                                                     |
| <b>Others</b>                |                                                                                                                                                                                                    |
| <b>Power Supply</b>          | DC12V/PoE                                                                                                                                                                                          |
| <b>Power Consumption</b>     | < 7W                                                                                                                                                                                               |
| <b>Operating Environment</b> | - 30 °C ~ 65°C (-22°F~149°F), Humidity: less than 95 % (non-condensing)                                                                                                                            |

|                                 |                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Storage Environment</b>      | - 30 °C ~ 60 °C (-22°F~140°F), Humidity: less than 95 % (non-condensing)                      |
| <b>Dimensions ( mm )</b>        | Ø 119 × 87.8                                                                                  |
| <b>Weight ( net )</b>           | Approx. 0.64KG                                                                                |
| <b>Installation</b>             | Ceiling mounting; Wall mounting                                                               |
| <b>Certificate</b>              | CE, FCC                                                                                       |
| <b>Environmental Protection</b> | Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006) |